



2011년 2월 Thomson Reuters Integrity 업데이트

Thomson Reuters 한국지사

김 문선



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2월 업데이트 개요

- Parameter and Value Range
- New Experimental Activity Field
- Target Record Redesign
- Targetscape Enhancements
- Others

1. Parameter 와 범위 값으로 검색

- Experimental & Pharmacology 검색에서 value 추가 및 범위 지정 가능
 - 이용자가 직접적으로 원하는 검색 수행 가능
 - 불필요한 데이터 나열을 제거함으로써, 시간 절약



Experimental Pharmacology- 값 & 범위 지정

Advanced Search

Session History

Clear Form

Start

Experimental Pharmacology

☒ Include Literature Results ☒ Include Patent Results

Pharmacological Activity

Value

Optional Value

"Peroxisome proliferator-activated PPARgamma receptor activation, inc

"EC-50"

Index

M

Greater than

200

Equal to

Greater than

Greater than or equal to

Less than

Less than or equal to

Between

Not between

Index

AND

Index

AND

Index

AND

Product

☐ Lead Compounds ☐ Under Active Development

Select Value

Optional Value

Optional Value

Index

AND

Index

AND

Index

AND

Reference

Select Value

Optional Value

Optional Value

Index

AND

Index

AND

Index

AND

Patent

Select Value

Optional Value

Optional Value

Index

AND

Index

AND

Index

AND



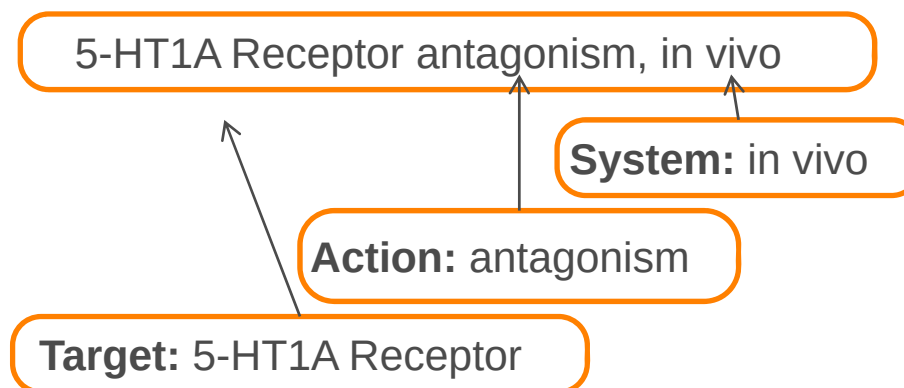
2. Experimental & Pharmacology 새 콘텐츠

- 새 Experimental Activity 콘텐츠

- 새로운 콘텐츠를 통한 이용의 편의성 향상
- 표준 용어 사용으로 MOA, 타겟, 활성화, vivo/vitro 데이터의 검색 용이성 향상

- 다양한 필드 추가

- Experimental Activity
- System
- Activity/Effect
- Target/Condition/Toxicity



검색 결과 – Experimental Activity or filter by range

Experimental Pharmacology Search ...

Records Retrieved 170986 in Experimental Pharmacology Options

Experimental Pharmacology Search Results 1 2 3 4 5 6 7 8 9 10 [Next>] [Last>>]

Query > Include Literature Results = Y AND Include Patent Results = Y AND Value = LESS THAN OR EQUAL TO .00001 AND Parameter = "IC-50" AND Unit = M

Drug Name	Biomarker	Mechanism of Action	Experimental Activity	Pharmacological Activity	Material	Method	Parameter	Value	Details
☐ HAp4pI		Chelating Agents		Mitogenesis, inhibition	SK-N-MC human neuroblastoma cells	Dye assay	IC-50	1.00 ± 1.00 nM	Ref. 1
☐ (+)-(2R*,3S*,11bR*)-Dihydrotetrabenazine		5-HT Reuptake Inhibitors Vesicular Monoamine Transporter 2 (VMAT2) Inhibitors		Dopamine reuptake, inhibition	Striatum, bovine	Radioactivity assay	IC-50	18 ± 2.00 nM	Pat. 1
☐ (+)-(2R*,3S*,11bR*)-Dihydrotetrabenazine		5-HT Reuptake Inhibitors Vesicular Monoamine Transporter 2 (VMAT2) Inhibitors	Serotonin Transporter (SERT; 5-HTT) affinity, IN VITRO	Serotonin SERT transporter affinity	HEK293 human embryonic kidney cells transfected with human	Displacement of	IC-50		Pat. 1

Filter by Statistics

- ▶ Biomarker
- ▶ Experimental Activity
 - System
 - Activity/Effect
 - Target/Condition/Toxicity
- ▶ Pharmacological Activity
- ▶ Parameter
- ▶ Material
- ▶ Method
- ▶ Reference Type
- ▶ Product in Studies
- ▶ Drug Mechanism of Action
- ▶ Administration Route
- ▶ Dose Regimen

Filter by Statistics

- ▶ Experimental Activity
 - System
 - Activity/Effect
 - Target/Condition/Toxicity
- ▶ Pharmacological Activity
- ▶ Parameter
- ▶ Material
- ▶ Biomarkers
- ▶ Method
- ▶ Reference Type
- ▶ Product in Studies
- ▶ Drug Mechanism of Action
- ▶ Administration Route
- ▶ Dose Regimen

Filter by Value Range

- System: In vitro, in vivo, ex vivo etc.
- Activity: Activation, Agonism, Inhibition, etc.
- Target/Condition/Toxicity: PPAR Gamma,
- Diabetes, Cytotoxicity etc.



Filter by Range – 팝업 창

Select Parameter & Units - Mozilla Firefox

thomson-pharma.com https://integrity.thomson-pharma.com/integrity/xmlsl/pk_exp_list.

Select Parameter & Units

In order to provide a meaningful graphical display of the content you need to filter the selected records down to a single **parameter** and **unit**. Please select a parameter and unit from the lists below:

Select Parameter

Select Unit

Go

Done

- 드롭 다운리스트에서 파라미터 선택

- 괄호 안의 숫자는 각 파라미터를 위한 실험 값을 의미

Select Parameter & Units - Mozilla Firefox

thomson-pharma.com https://integrity.thomson-pharma.com/integrity/xmlsl/pk_exp_list.

Select Parameter & Units

In order to provide a meaningful graphical display of the content you need to filter the selected records down to a single **parameter** and **unit**. Please select a parameter and unit from the lists below:

EC-50 (197)

Select Unit

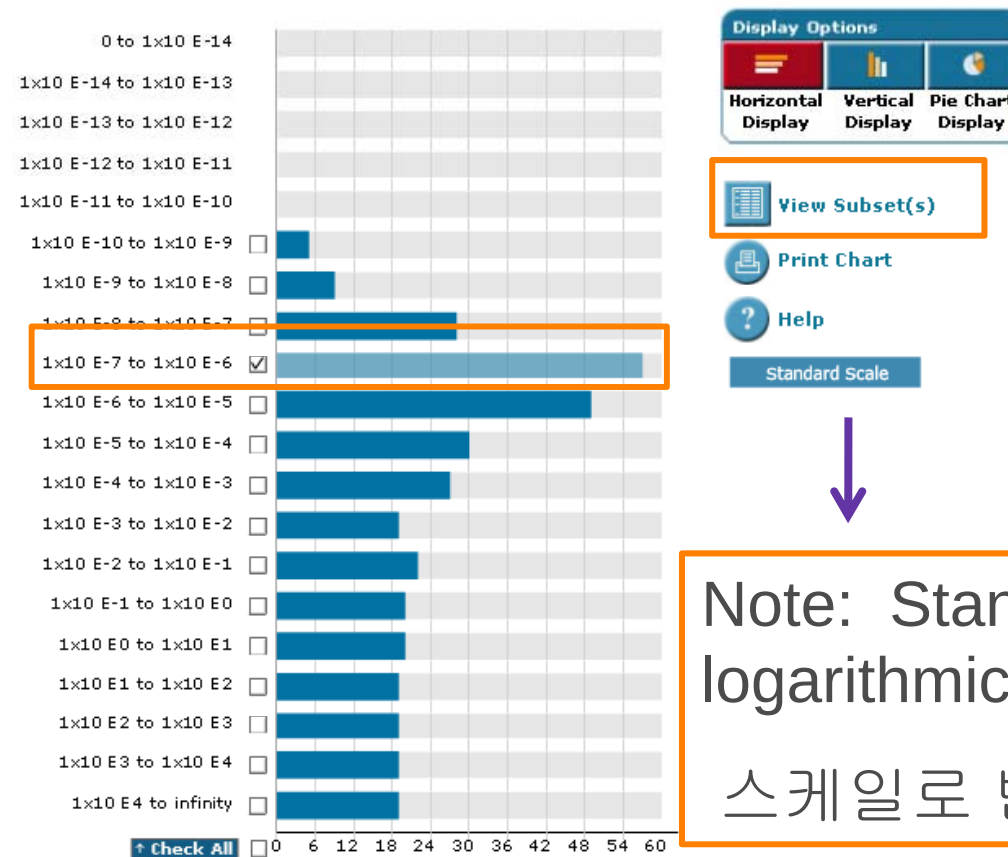
Go

Done

-드롭 다운리스트에서 파라미터 선택

- 괄호 안의 숫자는 단위별 실험 값을 의미

필터링 된 검색 결과



Note: Standard 과
logarithmic
스케일로 변환 가능

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3. Target 검색 결과 디자인 변경

- 타겟 결과 페이지에 있던 긴 컨디션 리스트 축소
 - 타겟과 관련된 치료영역별 개요 보기
 - Validated, Candidate & Exploratory conditions 숫자보기

Target Name	Type	Major Condition & Status			Links	
☐ HIF1A variant 1	Gene	Major Condition	V	C	E	GenBank: NM_001530 Entrez Gene: 3091 KEGG: 3091
		Cancer		1		
☐ Hypoxia-inducible factor 1-alpha (HIF-1alpha) (isoform 1)	Protein	Major Condition	V	C	E	Swiss-Prot: P52630 PDB: 1H2K , 1H2L , 1H2M , 1L3E , 1L8C
		Cancer	12	4		
		Cardiovascular Disorders			5	
		Dermatological Disorders			1	
		Endocrine Disorders		1	1	
		Eye Disorders	2			
		Hematologic Diseases			1	
		Immunological Disorders			1	
		Metabolic Diseases		1		
		Musculoskeletal and Connective Tissue Disorders	1			
		Neurological Disorders		1		
		Other disorders (Systemic disorders)	1		1	
		Renal Disorders			1	
		Respiratory Disorders		1		

3. Target 검색 결과 디자인 변경

- 'Exploratory' status 소개

Major Condition & Status				Links
Major Condition	V	C	E	GenBank: NM_001530
Cancer		1		Entrez Gene: 3091 KEGG: 00001
Major Condition	V			Validated Conditions: A target associated with the mechanism of action of one or more products that is under active development in preclinical or clinical phases or is registered or launched for the condition in question.
Cancer	1			

Filter by Statistics
Target Condition
Target Mechanisms of Action
Target Type
Targetscape

- **Validated:** A target associated with the mechanism of action of one or more products under active development in preclinical or clinical phases or is registered or launched for the condition in question.
- **Candidate:** A target associated with one or more products previously reported to be under active development in preclinical or clinical phases but no longer under active development for the condition in question.
- **Exploratory:** A target associated with one or more products undergoing Biological Testing for the condition in question.



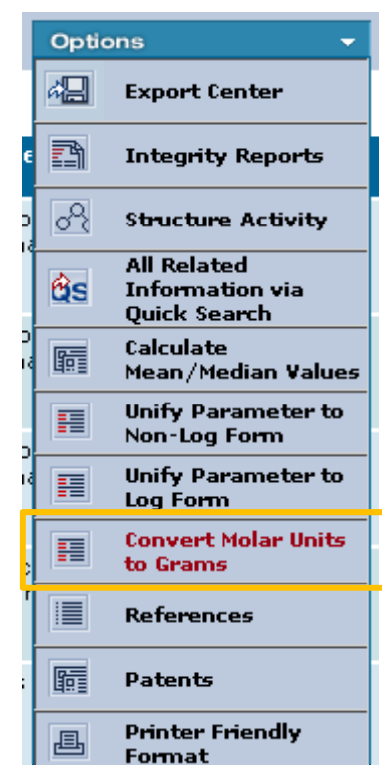
3. Target 검색 결과 디자인 변경

- 계층화된 구조로 표기 되는
Targetscape
 - 상위 레벨의 치료영역으로 구성
- Images & Pathways 재구성
 - Scientific Animations 으로 명칭 변경
 - 아이콘으로 표시
- Conditions 표기 변경
 - 계층적 트리 구조 사용

Description/Function	Hypoxia-inducible factor-1alpha (HIF-1alpha) is a regulatory subunit of the heterodimeric transcription factor HIF-1 that mediates acute and chronic hypoxia. HIF-1 alpha stimulates nitric oxide (NO) production by activating inducible NO synthase (iNOS) upregulation of oxygen-dependent expression of genes associated with blood vessel formation, including erythropoietin and factor (VEGF). HIF-1alpha has been detected at high levels in several human tumors where it upregulates genes that promote tumor growth. HIF-1alpha is a therapeutic target for the treatment of macular degeneration, diabetic macular edema and cancer.		
Targetscape	Cancer - Breast Cancer Targetscape - Prostate Cancer Targetscape - Lung Cancer Targetscape - Glioblastoma Targetscape - Ovarian Cancer Targetscape Eye Disorders - Macular Degeneration Targetscape Musculoskeletal and Connective Tissue Disorders - Rheumatoid Arthritis Targetscape 1 (Interleukin Crosstalk)		
Scientific Animations	HIF-1alpha-Induced Signaling Pathway		
Condition (Status)	☐ Collapse All ☒ Expand All ☒ 16 Conditions ☒ 8 Conditions ☒ 11 Conditions ☒ Neurological Disorders ☒ Respiratory Disorders ☒ Cardiovascular Disorders ☒ Hematologic Diseases ☒ Renal Disorders View Drugs ☒ Endocrine Disorders ☒ Dermatological Disorders ☒ Musculoskeletal and Connective Tissue Disorders ☒ Immunological Disorders ☒ Metabolic Diseases ☒ Cancer View Drugs ☒ Eye Disorders ☒ Other disorders (Systemic disorders)		
Related Mechanisms	Hypoxia Inducible Factor 1-alpha (HIF-1alpha) Inhibitors ; Hypoxia Inducible Factor 1-alpha (HIF-1alpha) Activators		

4. Others - Option 메뉴 추가

- Experimental Pharmacology '**Options Menu**'의 새 메뉴
- Convert Molar units to Grams
- 레코드의 molar 단위를 grams 으로 변경 표기
- 정렬 순서는 변경 없이 단위만 변경됨



4. Others - Experimental Activity 보기 변경

•Results view change

Experimental Pharmacology Search Results 1 2 3 4 5 6 7 8 9 10 [Next>] [Last>>]

Drug Name	Biomarkers	Mechanism of Action	Experimental Activity	Pharmacological Activity	Material	Method	Parameter	Value	Details
☐ Olanzapine		5-HT2A Antagonists Dopamine D2 Antagonists	5-HT1A Receptor agonism, IN VITRO	G-Protein (receptor-linked) activation, induction	CHO Chinese hamster ovary cells transfected with human 5-HT1A receptor	[35S]-GTPgammaS binding assay	EC-50	6.22 ± 3.50 µM	Ref. 23

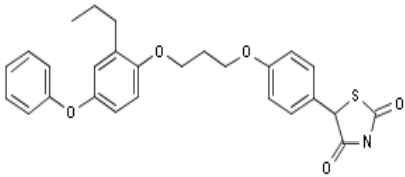
•SAR view change

Experimental Activity: **PPARgamma activation, IN VITRO**

Pharmacological Activity: Peroxisome proliferator-activated PPARgamma receptor activation, induction

Parameter: EC-50

Hierarchical view of Experimental Activity, Pharmacological Activity, and Parameter.

Drug Name & Structure	Mechanism of Action	Material	Method	Value	Details
☐ 278358 	PPARgamma Agonists	COS monkey kidney cells (SV40-transformed) transfected with human receptor	Transactivation assay	0.300 µM	Ref. 69

사용 중 문의..

- Ts.support.korea@thomsonreuters.com
- 02- 2076-8121

