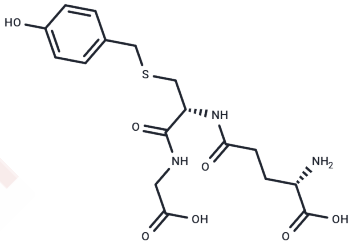
Data Sheet (Cat.No.TN7044)

TargetMol

S-(4-Hydroxybenzyl)glutathione

Chemical Properties



CAS No. : 129636-38-0

Formula: C17H23N3O7S

Molecular Weight: 413.45

Storage: Keep away from moisture,Keep away from direct sunlight
Powder: -20°C for 3 years | In solvent: -80°C for 1 year
Actual storage temperature shall be subject to the COA.

Biological Description

Description	S-(4-Hydroxybenzyl)glutathione was isolated as the major principle responsible for the inhibition of the in vitro binding of kainic acid to brain glutamate receptors by water extracts of the plant Gastrodia elata.
Targets(IC50)	GluR
In vitro	L-γ-Glutamyl-S-[(4-hydroxyphenyl)methyl] inhibits specific [3H]kainic acid binding to brain glutamate receptors with IC50 of 2 μM[1]. The affinity (IC50 value) of the compound is slightly lower compared to glutamate and glutathione.

Solubility Information

Solubility	DMSO: 55 mg/mL (133.03 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.4187 mL	12.0934 mL	24.1867 mL
5 mM	0.4837 mL	2.4187 mL	4.8373 mL
10 mM	0.2419 mL	1.2093 mL	2.4187 mL
50 mM	0.0484 mL	0.2419 mL	0.4837 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Andersson M, et, al. Inhibition of kainic acid binding to glutamate receptors by extracts of Gastrodia. Phytochemistry. 1995 Mar;38(4):835-6.

Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481