Brilliant Yellow

Cat. No.: HY-W110888

CAS No.: 3051-11-4

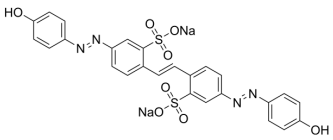
Molecular Formula: $C_{26}H_{18}N_4Na_2O_8S_2$

Molecular Weight: 624.55

Target: Others

Pathway: Others

Storage: 4°C, sealed storage, away from moisture
* In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)



SOLVENT & SOLUBILITY

In Vitro

DMSO : 10 mg/mL (16.01 mM; ultrasonic and warming and heat to 60°C)

Preparing Stock Solutions	Mass / Solvent / Concentration	1 mg	5 mg	10 mg
	1 mM	1.6012 mL	8.0058 mL	16.0115 mL
	5 mM	0.3202 mL	1.6012 mL	3.2023 mL
	10 mM	0.1601 mL	0.8006 mL	1.6012 mL

Please refer to the solubility information to select the appropriate solvent.

In Vivo

1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
   Solubility: ≥ 1 mg/mL (1.60 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: ≥ 1 mg/mL (1.60 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Brilliant Yellow, a diazo-containing sulfonic aci, is also a potent VGLUT-specific inhibitor. Brilliant Yellow is membrane-impermeable. However, there are some Brilliant Yellow analogs with low cytotoxicity and cell penetration. Brilliant Yellow analogs work on glutamatergic transmission in hippocampal neurons[1].

IC_{50} & Target

VGLUT[1]

REFERENCES

[1]. Kehrl J, et al. Vesicular Glutamate Transporter Inhibitors: Structurally Modified Brilliant Yellow Analogs. Neurochem Res. 2017 Jun;42(6):1823-1832.

Caution: Product has not been fully validated for medical applications. For research use only.

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