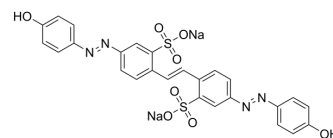


## Brilliant Yellow

|                    |  |
|--------------------|--|
| Cat. No.:          | HY-W110888   |
| CAS No.:           | 3051-11-4  |
| Molecular Formula: | C <sub>26</sub> H <sub>18</sub> N <sub>4</sub> Na <sub>2</sub> O <sub>8</sub> S <sub>2</sub>                                   |
| Molecular Weight:  | 624.55   |
| Target:            | Others   |
| Pathway:           | Others   |
| Storage:           | 4°C, sealed storage, away from moisture<br>* 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  | <div><div>Solvent</div><div>Concentration</div></div> | Mass | 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<br>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)<br>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 <sup>[1]</sup> . |
| IC <sub>50</sub> & Target | VGLUT <sup>[1]</sup>   |

### REFERENCES

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

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

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