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DATASHEET

Brilliant Blue G

Product overview

Name	Brilliant Blue G
Cat No	HB0716
Alternative names	Acid blue 90; Coomassie Brilliant Blue G; NSC 328382; CBBG
Biological description	Non-competitive P2X ₇ antagonist (IC ₅₀ values are 10 and 200 nM at rat and human P2X ₇ respectively). Displays neuroprotective and anti-inflammatory properties. Also a protein binding dye causing a colour change from red to blue.
Biological action	Dyes & stains
Description	Non-competitive P2X ₇ antagonist. Protein-binding dye.

Images



Solubility & Handling

Storage instructions	Room temperature
Solubility overview	Soluble in water (40mg/ml, at 20°C) or methanol
Important	This product is for RESEARCH USE ONLY and is not intended for therapeutic or diagnostic use. Not for human or veterinary use.

Chemical Data

Chemical name	Coomassie Brilliant Blue G (CBBG)
Molecular Weight	854.02
Chemical structure	
Molecular Formula	C ₄₇ H ₄₈ N ₃ NaO ₇ S ₂
CAS Number	6104-58-1
PubChem identifier	6324599
SMILES	<chem>CCN(CC1=CC(=CC=C1)S(=O)(=O)[O-])C2=CC(=C(C=C2)/C(=C/3\C=CC(=[N+](CC)CC4=CC(=CC=C4)S(=O)(=O)[O-])C=C3C)/C5=CC=C(C=C5)NC6=CC=C(C=C6)OCC)C.[Na+]</chem>

References

Block of purinergic P2X(7) receptor is neuroprotective in an animal model of Alzheimer's disease.

Ryu JK *et al* (2008) *Neuroreport* 19(17)

PubMedID [18852683](#)

Brilliant blue G selectively blocks ATP-gated rat P2X(7) receptors.

Jiang LH *et al* (2000) *Mol Pharmacol* 58(1)

PubMedID [10860929](#)

A rapid and sensitive method for the quantitation of microgram quantities of protein utilizing the principle of protein-dye binding.

Bradford MM (1976) *Anal Biochem* 72

PubMedID [942051](#)
