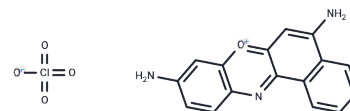


Cresyl Violet perchlorate

Chemical Properties

CAS No. :	41830-80-2
Formula:	C ₁₆ H ₁₂ ClN ₃ O ₅
Molecular Weight:	361.74
Appearance:	no data available
Storage:	keep away from direct sunlight Powder: -20°C for 3 years In solvent: -80°C for 1 year



Biological Description

Description	Cresyl Violet perchlorate is a red fluorescent stain used to stain neurons.
Targets(IC50)	Others
In vitro	The estimated total number of SG neurons is 27,485±3251 and 26,705±1823 in the PV and Cresyl Violet perchlorate (CV) stained sections, respectively. There is no significant difference between them (p=0.552). Therefore, CV staining is simpler and more cost-effective when estimates neuronal numbers. Total RC volume is estimated using the probe and it is found that an average RC volume of 2.162±0.35 mm ³ and 1.82±0.33 mm ³ in CV staining and PV immunostaining sections, respectively. The volume of neurons is estimated using the nucleator probe and it is 3487.63±951 μm ³ and 3740.1±784 μm ³ in CV staining and PV immunostaining sections, respectively. Similarly, the volume of the neuronal nucleus is also estimated using the nucleator probe and it is found to be 131.68±50 μm ³ and 126.51±33 μm ³ in CV staining and PV immunostaining sections, respectively.

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.7644 mL	13.8221 mL	27.6442 mL
5 mM	0.5529 mL	2.7644 mL	5.5288 mL
10 mM	0.2764 mL	1.3822 mL	2.7644 mL
50 mM	0.0553 mL	0.2764 mL	0.5529 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.

Reference

Kaur C, et al. Comparison of unbiased stereological estimation of total number of cresyl violet stained neurons and parvalbumin positive neurons in the adult human spiral ganglion. J Chem Neuroanat. 2017 Jun 23. pii: S0891-0618

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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