

## **Cresyl Violet perchlorate**

Catalog No: tcsc7773

**Available Sizes** 

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#### Size: 50mg

Specifications

#### CAS No:

41830-80-2

#### Formula:

 $\mathsf{C}_{16}\mathsf{H}_{12}\mathsf{CIN}_3\mathsf{O}_5$ 

#### Pathway:

Others

#### **Target:**

Others

#### **Purity / Grade:**

>98%

#### Solubility:

10 mM in DMSO

#### **Alternative Names:**

Oxazine 9 perchlorate

# **Observed Molecular Weight:** 361.74

### **Product Description**

Cresyl Violet perchlorate is a red fluorescent stain, which can be used to stain neurons.

*In Vitro:* The estimated total number of SG neurons is  $27,485\pm3251$  and  $26,705\pm1823$  in the PV and Cresyl Violet perchlorate (CV) stained sections, respectively. There is no significant difference between them (p=0.552). Therefore, Cresyl Violet perchlorate staining is simpler and more cost effective when estimates neuronal number. Although PV stains spiral ganglion neurons (SGNs) with



a greater intensity and provides a functional status, its tedious protocol limits its use for quantification. Total RC volume is estimated using probe and it is found that an average RC volume of  $2.162\pm0.35$  mm<sup>3</sup> and  $1.82\pm0.33$  mm<sup>3</sup> in Cresyl Violet perchlorate stained and PV immunostained sections, respectively. Volume of neurons is estimated using nucleator probe and it is 3487.63±951 µm<sup>3</sup> and 3740.1±784 µm<sup>3</sup> in CV stained and PV immunostained sections, respectively. Similarly, volume of neuronal nucleus is also estimated using nucleator probe and it is found to be 131.68±50 µm<sup>3</sup> and 126.51±33 µm<sup>3</sup> in CV stained and PV immunostained sections, respectively<sup>[1]</sup>.



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