

Carbazochrome (sodium sulfonate)

Catalog No: tcsc2610



Available Sizes

Size: 50mg

Size: 100mg



Specifications

CAS No:

51460-26-5

Formula:

$C_{10}H_{11}N_4NaO_5S$

Pathway:

GPCR/G Protein

Target:

Adrenergic Receptor

Purity / Grade:

>98%

Solubility:

DMSO : ≥ 49 mg/mL (152.05 mM)

Alternative Names:

AC-17

Observed Molecular Weight:

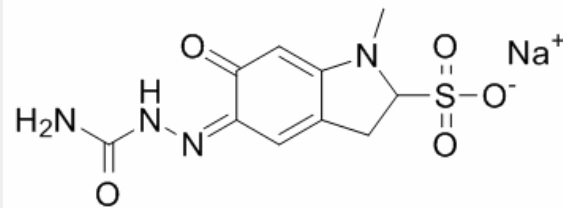
322.27

Product Description

Carbazochrome(AC-17) is an antihemorrhagic agent.

Target: Others

Carbazochrome is an antihemorrhagic agent that will cease blood flow by causing the aggregation and adhesion of platelets in the blood to form a platelet plug, ceasing blood flow from an open wound. It is hoped that this drug can be used in the future for preventing excessive blood flow during surgical operations and the treatment of hemorrhoids. Carbazochrome interacts with α -adrenoreceptors on surface of platelets, which are coupled to Gq protein and initiate PLC IP3/DAG pathway to increase intracellular free calcium concentration with these subsequent actions. Activates PLA2 and induce arachidonic acid pathway to synthese endoperoxides (TxA2, thromboxane A2). Calcium binds to calmodulin which then binds and activates myosin light-chain kinase, that will enable the myosin crossbridge to bind to the actin filament and allow contraction to begin. This will change platelet's shape and induce release of serotonin, ADP, vWF (Von Willebrand factor), PAF (Platelet-activating factor) to promote further aggregation and adhesion. From Wikipedia.



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