

## 4,5-Dihydroxytryptamine, BSA-conjugated

Cat.No: DAG3253

Lot. No. (See product label)

### PRODUCT INFORMATION

<b>Product overview</b>	4,5-Dihydroxytryptamine, BSA-conjugated
<b>Description</b>	4,5-Dihydroxytryptamine, Conjugated
<b>Species</b>	chemosynthetic
<b>Specificity</b>	4,5-Dihydroxytryptamine conjugated with glutaraldehyde (G) and bovine serum albumin (BSA).
<b>Conjugate</b>	BSA
<b>Form</b>	Lyophilized (1 mg); Lyophilized and reconstituted in deionized water (250 µg)
<b>Applications</b>	immunohistochemistry and immunocytochemistry.
<b>Usage</b>	This antigen was used to produce a polyclonal antibody.
<b>Quality Control Test</b>	250 micrograms, 1 milligram
<b>Storage</b>	Store at -20°C for one year. Reconstitute with deionized H <sub>2</sub> O + 0.1% merthiolate (optional preservative). This solution is stable at +4°C for 15 days.

### Background

<b>Introduction</b>	Tryptamine substituted with two hydroxyl groups in positions 4 and 5. Dihydroxytryptamine (DHT) is a neurotoxin used to selectively kill serotonergic neurons in scientific research, in the same way that 6-hydroxydopamine (6-OHDA) is used to kill dopaminergic cells. It is a synthetic amino acid which acts as a selective and irreversible inhibitor of tryptophan hydroxylase, which is a rate-limiting enzyme in the biosynthesis of serotonin. Fenclonine consequently depletes serotonin in the body and reduces its actions, acting as an indirect serotonin antagonist. It is used in scientific research to investigate the effects of serotonin depletion on behaviour.
<b>Keywords</b>	4,5-DHT; 4,5-dihydroxytryptamine