



5-Hydroxytryptamine [BSA] (DAG3405)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Product Overview	5-Hydroxytryptamine, BSA-conjugated
Specificity	5-Hydroxytryptamine conjugated with glutaraldehyde (G) and bovine serum albumin (BSA).
Species	N/A
Purity	Purity is greater than 90.0% as determined by SDS-PAGE. The solution contains STE, 0.1% sodium azide (NaN ₃) and 0.005% thimerosal.
Conjugate	BSA
Applications	immunohistochemistry and immunocytochemistry
Reconstitution	Reconstituted in deionized water (250 µg)
Format	Lyophilized
Size	1 mg
Preservative	None
Storage	2-8°C short term, -20°C long term

BACKGROUND

Introduction	Serotonin (5-hydroxytryptamine, or 5-HT) is a monoamine neurotransmitter synthesised in serotonergic neurons in the central nervous system and enterochromaffin cells in the gastrointestinal tract. Serotonin plays an important part in the biochemistry of depression, migraine, bipolar disorder and anxiety. It is also believed to be influential on sexuality and appetite. 5-HT is generally thought not to be released from synaptic terminal buttons in the manner of classical neurotransmission but from serotonergic varicosities into the extra
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neuronal space. From here it is free to diffuse over a relatively large region of space (>20µm) and activate 5-HT receptors located on the dendrites, cell bodies and presynaptic terminals of adjacent neurons. Serotonergic action is terminated primarily via uptake of 5-HT from the synapse. This is through the specific monoamine transporter for 5-HT, 5-HT reuptake transporter, on the presynaptic neuron. The pharmacology of 5-HT is extremely complex, with its actions being mediated by a large and diverse range of 5-HT receptors.

Keywords

Serotonin
