



L-Threonine [G-BSA] (DAG3412)

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

PRODUCT INFORMATION

Product Overview	L-Threonine, G-BSA-conjugated
Specificity	L-Threonine conjugated with glutaraldehyde (G) and bovine serum albumin (BSA).
Species	N/A
Purity	Purity is greater than 90.0% as determined by SDS-PAGE.
Conjugate	G-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

Threonine (abbreviated as Thr or T) is an α -amino acid with the chemical formula $\text{HO}_2\text{CCH}(\text{NH}_2)\text{CH}(\text{OH})\text{CH}_3$. Its codons are ACU, ACA, ACC, and ACG. This essential amino acid is classified as polar. Together with serine, threonine is one of two proteinogenic amino acids bearing an alcohol group (tyrosine is not an alcohol but a phenol, since its hydroxyl group is bonded directly to an aromatic ring, giving it different acid/base and oxidative properties). It is also one of two common amino acids that bear a chiral side chain, along with isoleucine. The threonine residue is susceptible to numerous posttranslational modifications. The hydroxy side-

chain can undergo O-linked glycosylation. In addition, threonine residues undergo phosphorylation through the action of a threonine kinase. In its phosphorylated form, it can be referred to as phosphothreonine.

Keywords	L-THREONINE; Threonine; THR
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