

Tyrosylprotein Sulfotransferase 1 (TPST1)

Product Information

Cat#	DIA-887
Descriptions	Tyrosylprotein Sulfotransferase 1 (TPST1) transfers sulfate groups from PAPS to tyrosine residues of secreted and membrane proteins, mediates post-translational tyrosine sulfation modification, and regulates protein-protein interactions and extracellular matrix function.
Applications	Tyrosylprotein Sulfotransferase 1 (TPST1) is applied in protein tyrosine sulfation detection kits and protein-protein interaction assay reagent development.
CAS No.	28-02-2066
Enzyme Commission Number	EC 2.8.2.20
Enzyme Source	Trichoplusia ni, High Five (baculovirus)-derived human Tyrosylprotein Sulfotrans.
Reaction	3'-phosphoadenylyl sulfate + L-tyrosyl-[protein] = adenosine 3', 5'-bisphosphate + H ⁺ + O-sulfo-L-tyrosine-[protein]
Activity Definition	Measured by its ability to transfer sulfate from PAPS to PSGL-1 peptide (Gln-Ala-Thr-Glu-Tyr-Glu-Tyr-Leu-Asp-Tyr-Asp-Phe-Leu-Pro-Glu-Thr) under the described conditions.