

Recombinant Enzyme Product Specification Sheet

Cat. No.:	PRO-E0269
LOT:	2009-0269
Activity:	α -2,3/2,6-Sialyltransferase/sialidase
Synonyms:	Alpha-2,3/2,6-sialyltransferase/sialidase; β -galactoside α -2,6-sialyltransferase; CMP- <i>N</i> -acetylneuramate: β -D-galactosyl-1,4- <i>N</i> -acetyl- β -D-glucosamine α -2,6- <i>N</i> -acetylneuraminyltransferase; β -galactoside α -2,3-sialyltransferase; CMP- <i>N</i> -acetylneuramate: β -D-galactoside α -2,3- <i>N</i> -acetylneuraminyl-transferase; CMP- <i>N</i> -acetylneuramate: β -D-galactoside α -(2→3)- <i>N</i> -acetylneuraminyl-transferase; beta-galactoside alpha-2,6-sialyltransferase; CMP- <i>N</i> -acetylneuramate:beta-D-galactosyl-1,4- <i>N</i> -acetyl-beta-D-glucosamine alpha-2,6- <i>N</i> -acetylneuraminyltransferase; beta-galactoside alpha-2,3-sialyltransferase; CMP- <i>N</i> -acetylneuramate:beta-D-galactoside alpha-2,3- <i>N</i> -acetylneuraminyl-transferase; CMP- <i>N</i> -acetylneuramate:beta-D-galactoside alpha-(2→3)- <i>N</i> -acetylneuraminyl-transferase
Nomenclature:	CAZy [GT80, glycosyltransferase family 80, member of fold GT-B]
Source organism:	<i>Pasteurella multocida</i>
Enzyme Commission No.:	2.4.99.1, 2.4.99.4, 3.2.1.-
Activity:	<div style="border: 1px solid black; padding: 5px;"> <p>NOTE: this product has been produced and is awaiting assay. It is thus currently available for purchase by the mg only. If you have a query, please contact us (technical@prozomix.com)</p> </div>
Specific activity:	
Purity:	> 95 % as judged by SDS-PAGE
Form and storage:	Supplied in 3.2 M ammonium sulphate, store at 4°C (shipped at room temperature)
pH optimum:	-
Temperature optimum:	-
[Protein]:	10 mg/mL
Sequence length:	388 amino acids (view sequence)
Accession No.:	Q15KI8
Molecular weight:	46240.5 Da (theoretical)
	~ 46000 Da (observed by SDS-PAGE)
	- (observed by mass spectrometry)

Biological function:	-
Potential application(s):	Biocatalysis, biochemistry, fundamental research
Comments:	-
Usage:	Agitate bottle sufficiently to fully homogenise enzyme precipitate before use
Assay:	-

Primary sequence:

MKTITLYLDPASLPALNQLMDFTONNEDKTHPRI FGLSRFKIPDNIITQYQNIHFVELKDNRPTEALFTILDQYP
GNIELNIHLNIAHSVQLIRPILAYRFKHLDRVSIQQLNLYDDGSMEYVDLEKEENKDISAEIKQAQKQLSHYLLT
GKIKFDNPTIARYVWQSAFPVKYHFLSTDYFEKAEFLQPLKEYLAENYQKMDWTAYQQLTPEQQAFYLTTLVGFND
EVKQSLEVVQAKFI FTGTTTWE GNTDVREYYAQQQLNLLNHFTQAEGDLFIGDHYKIYFKGHPRGGEINDYILNN
AKNITNIPANISFEVLMMTGLLPDKVGGVASSLYFSLPKEKISHIIFTSNKQVKS KEDALNNPYVKVMRRLGIID
ESQVIFWDSLKQL

Literature: 1. [Yu et al. \(2005\) J. Am. Chem. Soc. 127, 17618–17619](#)