

## Recombinant Enzyme Product Specification Sheet

<b>Cat. No.:</b>	PRO-E0269
<b>LOT:</b>	2010-0269-1
<b>Activity:</b>	$\alpha$ -2,3/2,6-Sialyltransferase/sialidase
<b>Synonyms:</b>	Alpha-2,3/2,6-sialyltransferase/sialidase; $\beta$ -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; 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
<b>Nomenclature:</b>	CAZy [GT80, glycosyltransferase family 80, member of fold GT-B]
<b>Source organism:</b>	<i>Pasteurella multocida</i>
<b>Enzyme Commission No.:</b>	2.4.99.1, 2.4.99.4, 3.2.1.-
<b>Activity:</b>	<div style="border: 1px solid black; padding: 5px; display: inline-block;"> <p><b>NOTE:</b> 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 (<a href="mailto:technical@prozomix.com">technical@prozomix.com</a>)</p> </div>
<b>Specific activity:</b>	
<b>Purity:</b>	> 95 % as judged by SDS-PAGE
<b>Form and storage:</b>	Supplied in 3.2 M ammonium sulphate, store at 4°C (shipped at room temperature)
<b>pH optimum:</b>	-
<b>Temperature optimum:</b>	-
<b>[Protein]:</b>	5.80 mg/mL
<b>Sequence length:</b>	388 amino acids ( <a href="#">view sequence</a> )
<b>Accession No.:</b>	Q15KI8
<b>Molecular weight:</b>	46240.5 Da (theoretical)
	~ 46000 Da (observed by SDS-PAGE)
	- (observed by mass spectrometry)

<b>Biological function:</b>	-
<b>Potential application(s):</b>	<a href="#">Biocatalysis</a> , <a href="#">biochemistry</a> , <a href="#">fundamental research</a>
<b>Comments:</b>	-
<b>Usage:</b>	Agitate bottle sufficiently to fully homogenise enzyme precipitate before use
<b>Assay:</b>	-

**Primary sequence:**

MKTITLYLDPASLPALNQLMDFTQNNEDKTHPRI FGLSRFKIPDNIITQYQNIHFVELKDNRPTEALFTILDQYP  
GNIELNIHLNIAHSVQLIRPILAYRFKHLDRVSIQQLNLYDDGSMEYVDLEKEENKDISAEIKQAEKQLSHYLLT  
GKIKFDNPTIARYVWQSAFPVKYHFLSTDYFEKAEFLQPLKEYLAENYQKMDWTAYQQLTPEQQAFYLTTLVGFND  
EVKQSLEVVQAKFI FTGTTTWEGNTDVREYYAQQQLNLLNHFTQAEGDLFIGDHYKIYFKGHPRGGEINDYILNN  
AKNITNIPANISFEVLMMTGLLPDKVGGVASSLYFSLPKEKISHIIFTSNKQVKSKE DALNNPYVKVMRRLGIID  
ESQVIFWDSLKQL

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