

Recombinant Aspergillus niger Glucose oxidase(gox),partial

Catalog No: #AP70992

Package Size: #AP70992-1 20ug #AP70992-2 100ug #AP70992-3 1mg

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Description

Product Name	Recombinant Aspergillus niger Glucose oxidase(gox),partial
Host Species	E.coli
Purification	Greater than 85% as determined by SDS-PAGE.
Immunogen Description	Expression Region:23-604aaSequence Info:Partial
Other Names	Beta-D-glucose:oxygen 1-oxido-reductase Glucose oxyhydrase GOD
Accession No.	P13006
Calculated MW	68.6 kDa
Tag Info	N-terminal 10xHis-tagged
Target Sequence	SNGIEASLLTDPKDVSGRTVDYIIAGGGTLGLTTAARLTENPNISVLVIESGSYESDRGPIIEDLNAYGDIFGSSV DHAYETVELATNNQTALIRSGNGLGGSTLVNGGTWTRPHKAQVDSWETVFGNEGWNWDNVAAYSLSQAERA RAPNAKQIAAGHYFNASCHGVNGTVHAGPRDTGDDYSPIVKALMSAVEDRGVPTKKDFGCGDPHGVSMFPN TLHEDQVRSDAAREWLLPNYQRPNLQVLTGQYVGKVLSSQNGTTPRAVGVEFGTHKGNTNHNVYAKHEVLLA AGSAVSPTILEYSGIGMKSILEPLGIDTVVDLPVGLNLQDQTTATVRSRITSAGAGQGQAAWFATFNETFGDYS EKAHELLNTKLEQWAEAEVARGGFHNTTALLIQYENYRDWIVNHNVAYSELFDTAGVASFDVWDLFPFTRGY VHILDKDPYLHHFAYDPQYFLNELDLLGQAAATQLARNISNSGAMQTYFAGETIPGDNLAYDADLSAWTEYIPY HFRPNYHGVGTCSMMPKEMGGVVDNAARVYGVQGLRVIDGSIPPTQMSSHVMTVFYAMALKISDAILEDYAS M
Formulation	Tris-based buffer50% glycerol
Storage	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C,-80°C. The shelf life of lyophilized form is 12 months at -20°C,-80°C.Notes:Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.

Background

This enzyme is widely applied for the determination of glucose in body fluids and in removing residual glucose or oxygen from foods and beverages. Furthermore, glucose oxidase-producing molds such as aspergillus and penicillium species are used for the biological production of gluconic acid.

References

"1.8 and 1.9-A resolution structures of the Penicillium amagasakiense and Aspergillus niger glucose oxidases as a basis for modelling substrate complexes."

Wohlfahrt G., Witt S., Hendle J., Schomburg D., Kalisz H.M., Hecht H.-J.

Acta Crystallogr. D 55:969-977(1999)Research Topic:Others

Note: This product is for in vitro research use only and is not intended for use in humans or animals.