
Product Data Sheet

Product Name: OGG1 Human
 Cat. No.: GP22032
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	HMMH; HOGG1; MUTM; OGH1; AP lyase.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH TGSMPARALL PRRMGHRTLA STPALWASIP CPRSELRLDL VLPSGQSFRW REQSPAHWSG VLADQVWTLT QTEEQLHCTV YRGDKSQASR PTPDELEAVR KYFQLDVTLA QLYHHWGSVD SHFQEVAQKF QGVRLLRQDP IECLFSFICS SNNNIARITG MVERLCQAFG PRLIQLDDVT YHGFPSLQAL AGPEVEAHLR KLGLGYRARY VSASARAILE EQGGLAWLQQ LRESSYEEAH KALCILPGVG TKVADCICLM ALDKPQAVPV DVHMWHIAQRDYSWHPTTSQ AKGPSPQTNK ELGNFFRSLW GPYAGWAQAV LFSADLRQCR HAQEPPAKRRKSGKPEG.		
Formulation	0.5mg/ml solution containing 20mM Tris-HCl buffer pH-8, 0.1M NaCl and 40% Glycerol.		

Introduction

OGG1 is a DNA glycosylase enzyme which takes part in base excision repair. OGG1 protein is the main enzyme accountable for the excision of 7,8-dihydro-8-oxoguanine (8-oxoG), a mutagenic base byproduct which arises as a result of exposure to reactive oxygen species (ROS). OGG1 shows beta lyase activity that nicks DNA 3' to the lesion.

Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

Background

OGG1 Recombinant Human produced in E.Coli is a single, non-glycosylated polypeptide chain containing 368 amino acids (1-345 a.a.) and having a molecular mass of 41.2 kDa.

Caution: Product has not been fully validated for medical applications. For research use only.

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The OGG1 is fused to 23 amino acid His-Tag at N-terminus and purified by proprietary chromatographic techniques.

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