Recombinant Human N-Glycosylase/OGG1 Protein

Catalog Number: PKSH032809

Note: *Centrifuge before opening to ensure complete recovery of vial contents.*

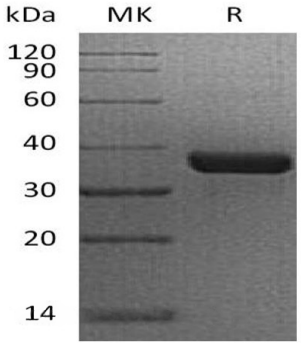
Description

Species	Human
Source	E.coli-derived Human N-Glycosylase;OGG1 protein Met 1-Gly345
Mol_Mass	38.8 kDa
Accession	AAH00657.1
Bio-activity	Not validated for activity

Properties

Purity	> 95 % as determined by reducing SDS-PAGE.
Endotoxin	< 1.0 EU per μg of the protein as determined by the LAL method.
Storage	Store at < -20°C, stable for 6 months. Please minimize freeze-thaw cycles.
Shipping	This product is provided as liquid. It is shipped at frozen temperature with blue ice/gel packs. Upon receipt, store it immediately at < - 20°C.
Formulation	Supplied as a 0.2 μm filtered solution of 20mM Tris-HCl, 150mM NaCl, 1mM EDTA, pH 8.5.
Reconstitution	Not Applicable

Data



> 95 % as determined by reducing SDS-PAGE.

Background

Human N-Glycosylase/DNA Lyase(OOG1) is a DNA repair enzyme, which belongs to the type-1 OGG1 family. OOG1 incises DNA at 8-oxoG residues, and excises 7,8-dihydro-8-oxoguanine and 2,6-diamino-4-hydroxy-5-N-methylformamidopyrimidine (FAPY) from damage DNA. It has a β-lyase activity that nicks DNA 3' to the lesion. OOG1 together with APEX1 is recruited to nuclear speckles in UVA-irradiated cells. The OGG1 gene mutations may be caused Renal cell carcinoma.