Recombinant Protein Technical Manual

Recombinant Human N-Glycosylase/OGG1 Protein (GST Tag)

RPES0472

Product Data:

Product SKU: RPES0472

Size: 10µg

Species: Human

Expression host: E. coli

Uniprot: O15527

Protein Information:

Molecular Mass: 65.1 kDa

AP Molecular Mass: 66 kDa

Tag: N-GST

Bio-activity:

Purity: > 95 % as determined by reducing SDS-PAGE.

Endotoxin: < 1.0 EU per µg 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 TrisHCl, 100mM NaCl, 1mM DTT, 1mM EDTA, 50% Glycerol, pH 7.8.

Reconstitution: Please refer to the printed manual for detailed information.

Application:

Synonyms: N-Glycosylase/DNA Lyase; 8-Oxoguanine DNA Glycosylase; DNA-(Apurinic or Apyrimidinic Site) Lyase; AP Lyase; OGG1; MMH; MUTM; OGH1

Immunogen Information:

Sequence: Met 1-Gly345

Background:

Human N-Glycosylase/DNA Lyase(OOG1) is a DNA repair enzyme, which belongs to the type 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.