

**NEIL2, 1-332aa, Human, His tag, E.coli**

**Cat.NO.: TP03140**

3th Edition

**Synonyms:**Endonuclease 8-like 2, NEH2, NEI2, Nei-like protein 2.

**Description:**Endonuclease 8-like 2, also known as NEIL2, belongs to a class of DNA glycosylases homologous to the bacterial Fpg/Nei family. These glycosylases initiate the first step in base excision repair by cleaving bases damaged by reactive oxygen species and introducing a DNA strand break via the associated lyase reaction.

**Form:**Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 1mM DTT, 10% glycerol, 0.1M NaCl

**Molecular Weight:**39.4 kDa (356aa), confirmed by MALDI-TOF

**Sequences:**

MGSSHHHHHHSSGLVPRGSHMGSHMPEGPLVRKFHHLVSPFVGQQVVKTTGGSSKKLQPASLQSLWLQDTQVHG  
KKLFLRFDLDEEMGPPGSSPTPEPPQKEVQKEGAADPKQVGEPSGQKTLDGSSRSAELVPQGEDDSEYLERDAP  
AGDAGRWL RVSFGLFGSVWVNDFSRAKKANKRGDWRDPSRLVLHFGGGGFLAFYNCQLSWSSSPVVTPTCDIL  
SEKFRGQALEALGQAQPVCYTLLDQRYFSGLGNIIKNEALYRAGIHPLSLGSLVLSASRREVLVDHVVEFSTAWLQG  
KFQGRPQHTQVYQKEQCPAGHQVMKEAFGPEDGLQRLTWWCPQCQPQLSEEPEQCQFS

**Purity:**> 95% by HPLC

**Concentration:**0.5 mg/ml (determined by Bradford assay)

**Endotoxin Level:**<1.0 EU per 1 ug of protein (determined by LAL method)

**Storage:**Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.