

Heme oxygenase1,1-266aa, Human, His-tagged, Recombinant, E.coli

Cat.NO.: TP02432

3th Edition

Synonyms:HO-1, Heat shock protein 32, HSP32

Description:Heme oxygenase 1 belongs to the heme oxygenase family and is an essential enzyme in heme catabolism. It cleaves heme to form biliverdin, which is subsequently converted to bilirubin by biliverdin reductase, and carbon monoxide, a putative neurotransmitter. Also this protein is known to play an important role in the regulation of cardiovascular function and its adaptive response to a variety of stressors.

Form:Liquid. In 20 mM Tris-HCl buffer (pH 8.0) containing 50 mM NaCl,0.1 mM PMSF, 10% glycerol

Molecular Weight:31.4 kDa (274 aa), confirmed by MALDI-TOF

Sequences:

MERPQPHSMPQDLSEALKEATKEVHTQAENAEFMRNFQKGQVTRDGFKLVMASLYHIYVALEEEIERNKESPVFA
PVYFPEELHRKAALEQDLAFWYGPRWQEVIPYTPAMQRYVKRLHEVGRTEPELLVAHAYTRYLGDLSGGQVLKKIA
QKALDLPSSGEGLAFFTFPNIASATKFKQLYRSRMNSLEMPAVRQRVIEEAKTAFLLNIQLFEELQELLTHDTKDQS
PSRAPGLRQRASNKVQDSAPVETPRGKPLNTRSQAPLEHHHHHH

Purity:> 95% by HPLC

Concentration:1 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.