

32-8082: Recombinant Human Glutathione Synthetase/GSH Synthetase (C-6His)(Discontinued)

Gene : GSS
Gene ID : 2937
Uniprot ID : P48637

Description

Source: E.coli.
MW :53.45kD.

Recombinant Human GSH Synthetase is produced by our E.coli expression system and the target gene encoding Ala2-Val474 is expressed with a 6His tag at the C-terminus. Glutathione Synthetase belongs to the eukaryotic GSH synthase family. Glutathione Synthetase is the second enzyme in the glutathione biosynthesis pathway. It catalyses the condensation of gamma-glutamylcysteine and glycine to form glutathione. Glutathione play an important role in a variety of biological functions, including detoxification of xenobiotics, protection of cells from oxidative damage by free radicals, and membrane transport. The protein functions as a homodimer to catalyze the second step of glutathione biosynthesis, which is the ATP-dependent conversion of gamma-L-glutamyl-L-cysteine to glutathione. Defects in Glutathione Synthetase can also cause the glutathione synthetase deficiency of erythrocytes, which is a mild form causing hemolytic anemia.

Product Info

Amount : 10 µg / 50 µg
Content : Supplied as a 0.2 µm filtered solution of 20mM TrisHCl, 200mM NaCl, pH 7.5 .
Storage condition : Store at -20°C, stable for 6 months after receipt. Please minimize freeze-thaw cycles.
Amino Acid : ATNWGSELLQDKQQLLEELARQAVDRALAEGLVLLRTSQEPTSSEVVSYAPFTLFPSLVPSALLEQAYAVQMDFNLLVDAVSQNAAFLEQTLSSSTIKQDDFTARLFDIHKQVLKEGIAQTVFLGLNRSYMFQRSADGSPALKQIEINTISASFGGLASRTPAVHRHVLSVLSKTKEAGKILSNPNSKGLALGIKAWELYGSPNALVLLIAQEKERNIFDQRAIENELARNIHVIRRTFEDISEKGLDQDRRLFVDGQEIADVYFRDGYMQRQYSLQNWEARLLERSHAAKCPDIATQLAGTKKVQQLSRPGMLEMLLPQPEAVARLRATFAGLYSLDVGEEGDQAIAEALAAPSRFVLKQREGGNNLYGEEMVQALKQLKDSEERASYILMEKIEPEPFENCLLRPGSPARVVQCISELGIFGVYVRQEKTLVMNKHVGHLLRKAIEHADGGVAAGVAVLDNPPVLEHHHHHH

Application Note

Endotoxin : Less than 0.1 ng/µg (1 IEU/µg) as determined by LAL test.