Recombinant Human Glutathione S-transferase A4 (GSTA4)

Product Code	CSB-EP009973HU-B
Storage	Store at -20°C, for extended storage, conserve at -20°C or -80°C.
Uniprot No.	O15217
Product Type	Recombinant Protein
Immunogen Species	Homo sapiens (Human)
Purity	≥85% (SDS-PAGE)
Sequence	MAARPKLHYP NGRGRMESVR WVLAAAGVEF DEEFLETKEQ LYKLQDGNHL LFQQVPMVEI DGMKLVQTRS ILHYIADKHN LFGKNLKERT LIDMYVEGTL DLLELLIMHP FLKPDDQQKE VVNMAQKAII RYFPVFEKIL RGHGQSFLVG NQLSLADVIL LQTILALEEK IPNILSAFPF LQEYTVKLSN IPTIKRFLEP GSKKKPPPDE IYVRTVYNIF RP
Source	E.coli
Target Names	GSTA4
Protein Names	Recommended name: Glutathione S-transferase A4 EC= 2.5.1.18 Alternative name(s): GST class-alpha member 4 Glutathione S-transferase A4-4
Expression Region	1-222
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	Tag type will be determined during the manufacturing process.
Protein Length	Full length protein
Target Details	Cytosolic and membrane-bound forms of glutathione S-transferase are encoded by two distinct supergene families. These enzymes are involved in cellular defense against toxic, carcinogenic, and pharmacologically active electrophilic compounds. At present, eight distinct classes of the soluble cytoplasmic mammalian glutathione S-transferases have been identified: alpha, kappa, mu, omega, pi, sigma, theta and zeta. This gene encodes a glutathione S-tranferase belonging to the alpha class. The alpha class genes, which are located in a cluster on chromosome 6, are highly related and encode enzymes with glutathione peroxidase activity that function in the detoxification of lipid peroxidation products. Reactive electrophiles produced by oxidative metabolism have been linked to a number of degenerative diseases including Parkinson s disease, Alzheimer s disease, cataract formation, and atherosclerosis.
Reconstitution	We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL.We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.

Shelf Life	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.