

Recombinant *Staphylococcus aureus* walk Protein (Val251–Arg376), N-GST tagged

Cat. No. walk-5759S **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant <i>Staphylococcus aureus</i> walk (Val251–Arg376) fused with the N-terminal GST tag was expressed in <i>E. coli</i> .
Species	<i>Staphylococcus aureus</i>
Source	<i>E. coli</i>
ProteinLength	Val251–Arg376
Description	Member of the two-component regulatory system Walk/WalR that regulates genes involved in cell wall metabolism, virulence regulation, biofilm production, oxidative stress resistance and antibiotic resistance via direct or indirect regulation of autolysins. Functions as a sensor protein kinase which is autophosphorylated at a histidine residue in the dimerization domain and transfers its phosphate group to the conserved aspartic acid residue in the regulatory domain of WalR. In turn, WalR binds to the upstream promoter regions of the target genes to positively and negatively regulate their expression.
Form	Lyophilized powder/frozen liquid
Molecular Mass	41.13 kDa
Purity	> 90 % as determined by SDS-PAGE

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Notes	For research use only.
Storage	Use a manual defrost freezer and avoid repeated freeze thaw cycles. Store at 2 to 8 centigrade for one week. Store at -20 to -80 centigrade for twelve months from the date of receipt.
Storage Buffer	Supplied as solution form in 50 mM Tirs, pH 8.0, 150 mM NaCl or lyophilized from 50 mM Tirs, pH 8.0, 150 mM NaCl.
Reconstitution	Reconstitute in sterile water for a stock solution.
Shipping	They are shipped out with dry ice/blue ice unless customers require otherwise.
GENE INFORMATION	
Official Symbol	walk
Synonyms	Sensor protein kinase Walk; walk; EC:2.7.13.3; vicK; MW0019
UniProt ID	Q7A215