



# Recombinant Human Aryl hydrocarbon receptor repressor (AHRR)

<b>Product Code</b>	CSB-BP001482HU
<b>Storage</b>	Store at -20°C, for extended storage, conserve at -20°C or -80°C.
<b>Uniprot No.</b>	A9YTQ3
<b>Product Type</b>	Recombinant Protein
<b>Immunogen Species</b>	Homo sapiens (Human)
<b>Purity</b>	≥85% (SDS-PAGE)
<b>Sequence</b>	<p>MPRTMIPPGE CTYAGRKRRR PLQKQRPAVG AEKSNPSKRH RDRLNAELDH          LASLLPFPD IISKLDKLSV LRLSVSYLRV KSFFQVVQEQ SSRQPAAGAP          SPGDSCPLAG SAVLEGRLLL ESLNGFALVV SAEGTIFYAS ATIVDYLGPH          QTDVMHQNIY DYIHVDDRQD FCRQLHWAMD PPQVVFQPP PLETGDDAIL          GRLLRAQEWG TGTPTEYSAF LTRCFICRVR CLLDSTSGFL TMQFQGKLFK          LFGQKKKAPS GAMLPPRLSL FCIAAPVLLP SAAEMKM RSA LLRAKPRADT          AATADAKVKA TTSLCESELH GKNPYSAGRS SRESGVLVLR EQTDAGRWAQ          VPARAPCLCL RGGPDLVLDP KGGSGDREEE QHRMLSRASG          VTGRRETPGP TKPLPWTAGK HSEDGARPR L QPSKNDPPSL RPMPRGSCLP          CPCVQGTFRN SPISHPPSPS PSAYSSRTSR PMRDVGEDQV HPPLCHFPQR          SLQHQLPQPG AQRFATRGYP MEDMKLQGV P MPPGDLCGPT LLLDVSIMK          KDSGCEGAAD GCVPSQVWL G ASDRSHPATF PTRMHLKTEP DSRQQVYISH          LGHGVRGAQP HGRATAGRSR ELTPFHPAHC ACLEPTDGLP QSEPPHQLCA          RGRGEQSC TC RAAEAAPVVK REPLDSPQWA THSQGMVPGM          LPKSALATLV PPQASGCTFL P</p>
<b>Source</b>	Baculovirus
<b>Target Names</b>	AHRR
<b>Protein Names</b>	Recommended name: Aryl hydrocarbon receptor repressor Short name= AhR repressor Short name= AhRR Alternative name(s): Class E basic helix-loop-helix protein 77 Short name= bHLHe77
<b>Expression Region</b>	1-701
<b>Notes</b>	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
<b>Tag Info</b>	Tag type will be determined during the manufacturing process.
<b>Protein Length</b>	Full length protein
<b>Target Details</b>	Dioxin is a teratogen that exerts its effects through the arylhydrocarbon receptor in conjunction with the receptor's binding partner, arylhydrocarbon receptor nuclear translocator. This protein represses signal transduction by the arylhydrocarbon receptor by competing with the arylhydrocarbon receptor nuclear translocator for binding to the arylhydrocarbon receptor. Expression of the repressor is stimulated by the receptor/translocator heterodimer, thereby regulating receptor function through a negative feedback mechanism. In



addition, the encoded protein can bind to nuclear factor kappa-B.

---

**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.