

cQrex[®] ingredients

Chemically defined peptides for
biopharma cell culture applications

cQrex[®]



A global partner to the pharma and biotech industry

Evonik is one of the world's leading specialty chemical companies, with over 34,000 employees from more than 100 countries active across 170+ sites. Pharmaceutical and biotech customers from around the world leverage our broad portfolio of cell culture ingredients and value-adding services. We address complex customer demands for high-quality cell culture solutions by relying on decades of expertise in the production of amino acids and our strong backward integration at trusted manufacturing sites in Europe and Asia.

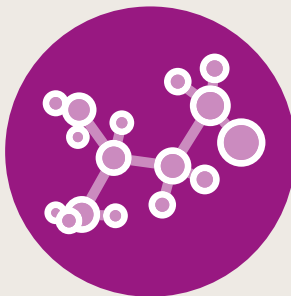


Our offering: peptides and beyond



PEPTIDES

cGMP-quality peptides, solving key issues in mammalian cell culture



AMINO ACIDS

Decades-long experience in supplying highly pure amino and keto acids for consistent media performance



CUSTOMIZATION

Media ingredients tailored to your specific requirements by our team of experts



SERVICES

Formulation, regulatory and application support with strong local market expertise

The cQrex® effect: enhanced cell culture performance

Tyrosine, cystine and glutamine are examples of amino acids that are hardly soluble or chemically reactive, and are unstable. These properties limit process performance, especially if highly concentrated feed or perfusion media are required to intensify the process.

cQrex® peptides from Evonik provide an elegant solution. Chemical coupling to carrier amino acids yields peptides that are stable and highly soluble at neutral pH. These natural building blocks are efficiently utilized by a variety of animal and human cells.

PRODUCT PROPERTIES

- Stable
- Soluble
- Bioavailable
- Non-animal-derived
- Chemically defined

PROCESS BENEFITS



Process intensification

Higher concentrations and smaller volumes



Process simplification

Reduced number of feeds and neutral pH



Increased productivity

Optimized cell culture performance

Curious? Order samples to test them in your system

When performance is of the essence, it helps to have the right tools available. The cQrex® portfolio consists of peptides and the keto acid AKG, which are designed to help manage the supply of critical nutrients by

improving their stability or solubility, in order to increase the productivity.

All products are readily available at commercial scale.

Overview of cQrex® ingredients

PRODUCT NAME	MOLECULAR WEIGHT	SOLUBILITY IN WATER (20 °C, pH 7)		FREE SAMPLE QUANTITY
cQrex® AQ L-Alanyl-L-glutamine	217.23 g/mol	720 g/L	3314 mM	10 g
cQrex® GQ Glycyl-L-glutamine hydrate	221.23 g/mol	154 g/L	696 mM	10 g
cQrex® GY Glycyl-L-tyrosine dihydrate	274.27 g/mol	34 g/L	124 mM	10 g
cQrex® AY L-Alanyl-L-tyrosine dihydrate	288.31 g/mol	20 g/L	69 mM	10 g
cQrex® AC N,N'-di-L-Alanyl-L-cystine	382.457 g/mol	13 g/L	34 mM	6 g
cQrex® KC N,N'-di-L-Lysyl-L-cystine dihydrochloride	569.57 g/mol	>570 g/L	>1000 mM	10 g
cQrex® AKG α-Ketoglutaric acid	146.07 g/mol	>1000 g/L	>6846 mM	5 g

This information and all further technical advice are based on our present knowledge and experience. However, it implies no liability or other legal responsibility on our part, including with regard to existing third party intellectual property rights, especially patent rights. In particular, no warranty, whether express or implied, or guarantee of product properties in the legal sense is intended or implied. We reserve the right to make any changes according to technological progress or further developments. The customer is not released from the obligation to conduct careful inspection and testing of incoming goods. Performance of the product described herein should be verified by testing, which should be carried out only by qualified experts in the sole responsibility of a customer. Reference to trade names used by other companies is neither a recommendation, nor does it imply that similar products could not be used.

cQrex® – trademark of
Evonik Industries AG and its subsidiaries.