

# cQrex<sup>®</sup> ingredients

Chemically defined dipeptides for  
biopharma cell culture applications

cQrex<sup>®</sup>



## A global partner to the pharma and biotech industry

Evonik is one of the world's leading specialty chemical companies, with over 33,000 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.

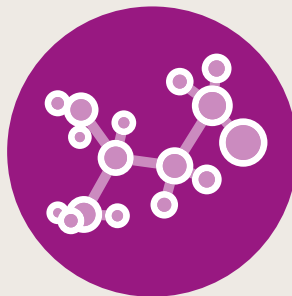


## Our offering: dipeptides and beyond



### DIPEPTIDES

cGMP-quality dipeptides, 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

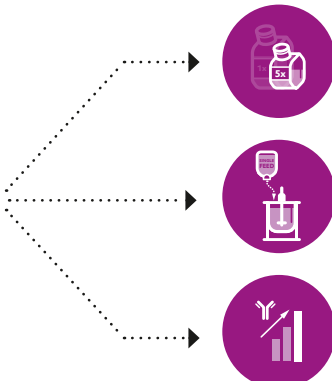
# The cQrex® effect: enhanced cell culture performance

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® dipeptides from Evonik provide an elegant solution. Chemical coupling to carrier amino acids yields dipeptides 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 your sample kit!

When performance is of the essence, it helps to have the right tools available. The cQrex® portfolio consists of dipeptides 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.

## Products in the sample kit

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

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