

Hypoxia-inducible factor (HIF) prolyl hydroxylase (PH) inhibitors

This material is shared with you to inform you that EVRENZO™ ▼ (roxadustat) is being introduced to clinical practice.

An innovative approach to treating anaemia of chronic kidney disease (CKD)

Anaemia is a condition in which the body has fewer red blood cells than normal to carry adequate oxygen to tissues and organs.¹ It is a common complication of CKD and can be observed early in the progression of the condition.¹

Anaemia in CKD is caused by many factors^{1, 2, 3}



Reduced oxygen sensing in kidneys



Reduced red blood cell production



Chronic inflammatory process



Iron deficiency

Discovery of the HIF pathway paved the way for a novel class of treatment for anaemia, HIF-PH inhibitors.^{4,5} These medicines are able to mimic the body's natural response to reduced oxygen levels in the blood, triggering the production of red blood cells and addressing the multicausality of anaemia.⁶

A novel class of treatment for anaemia of CKD

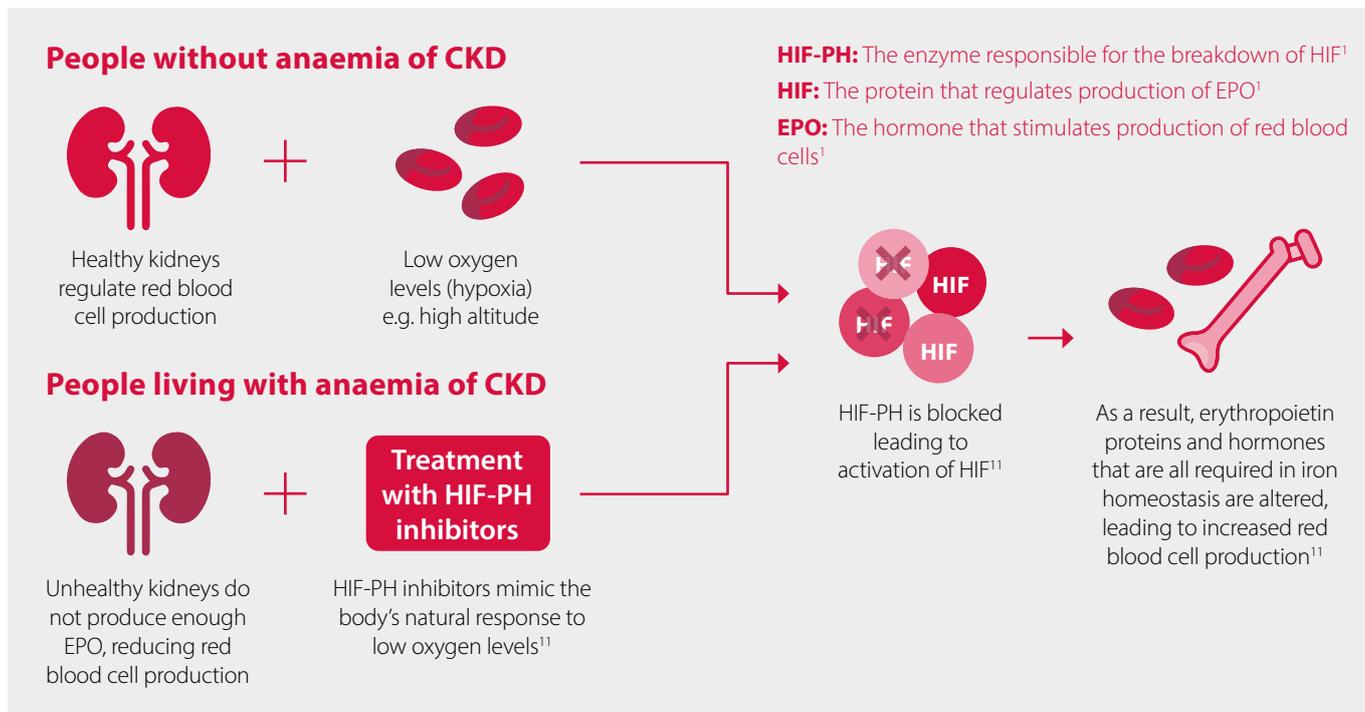
EVRENZO™ represents an alternative treatment approach compared to the current standard of care.⁷ It is the first in the HIF-PH inhibitor class⁸ approved for the treatment of adult patients with symptomatic anaemia associated with CKD in European Union (EU) member states, and the European Economic Area countries (Iceland, Norway and Liechtenstein), as well as countries including Great Britain, Japan, China, Russia, Chile and South Korea. We are sharing this information to provide an explanation about EVRENZO™ and its mechanism of action.

Understanding the HIF pathway

HIF is a protein complex that plays an important role in the body's response to reduced oxygen levels.⁹

When the body senses a reduction in oxygen levels, often observed at high altitude and also known as hypoxia, the HIF pathway stimulates a physiological response that increases production of oxygen-carrying cells in the bone marrow and increases availability of iron to support the production of these cells.^{9,10}

The research teams that first identified the HIF protein complex and the way the body responds to low oxygen were awarded the Nobel Prize in 2019 for their work.⁹



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For more information, please consult the complete product information for EVRENZO (EMA) [here](#).