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**FRACTIONAL CALCULUS AND FRACTIONAL KINETIC  
EQUATION INVOLVING EXTENDED  
HYPERGEOMETRIC FUNCTION**

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**Abstract:** In this article, generalized pathway integral operator with the classical Gauss hypergeometric function kernel and the fractional differential operators are used to studied new extended hypergeometric function. Furthermore, extended fractional kinetic equation involving new extended hypergeometric function that contained two Fox-Wright function as regularizer is investigated using Sumudu transform and Wiman's function.

**Keywords and Phrases:** Beta function, Fox-Wright function, Wiman function, Sumudu transform.

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